DESCRIPTION

The 2HB series is an outstanding solution for high mounting height industrial or retail applications. The 2HB optic has been optimized to provide maximum performance from either the T5 or T8 lamps. Optional uplight component is provided to enable excellent ceiling uniformity.

APPLICATION

2HB's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. The primary benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control. Primary applications include "big box" retail, shopping malls, light industrial, etc.

Catalog #	2HB-654T5-UNV-LGF54T5M/850K-TU-B454PUNVE/B254PUNVD-UPL-TCBP-U	**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

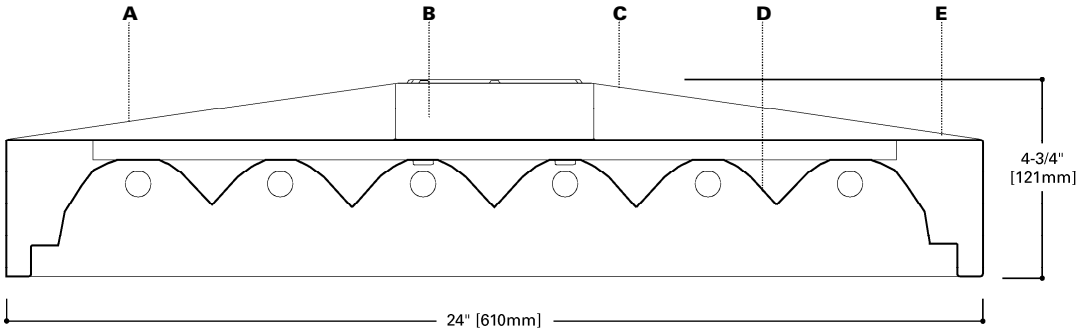
A···Construction
Housing, end plates and socket tracks are die formed code gauge, prime cold rolled steel. The housing features an integral ballast channel that adds strength and provides numerous KO's for easy installation. Die formed internal reflectors are available in both high reflectance specular material or in painted after fabrication white enamel.

B···Electrical
Ballasts are Class "P" and are positively secured by mounting bolts. Pressure-lock lampholders. UL/CUL listed. Suitable for damp locations.

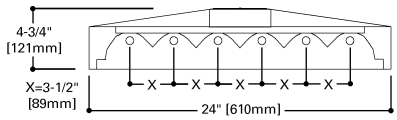
C···Finish
Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

D···Downlight/Uplight Optics
Open downlight design optimizes performance. Gasketed door frame & lens assembly is optional for more demanding environments. Uplight option provided to enable ceiling uniformity.

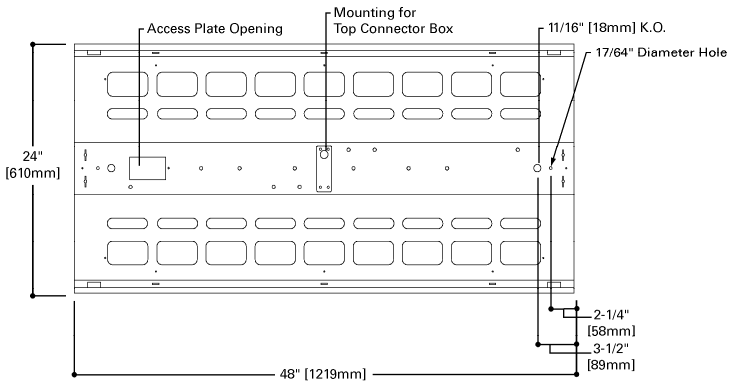
E···Mounting
The 2HB series is ideally suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available.

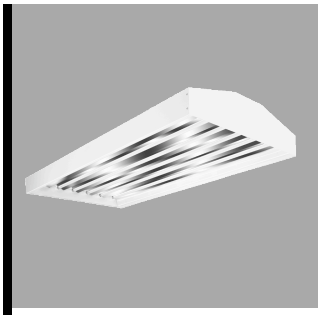


LAMP CONFIGURATIONS



DIMENSION TOP VIEW





2HB15

2' x 4' High-Bay
6 Lamp

HIGH-BAY INDUSTRIAL LUMINAIRE

F-BAY™ FLUORESCENT HIGH-BAY

PRODUCT INCLUDES:

- 6-Lamp T5HO
- 5000K GE Lamps
- Universal Voltage
- ULT Program Start Ballasts
- Up-light
- Top Connector Box Plate

ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
654 = 363W

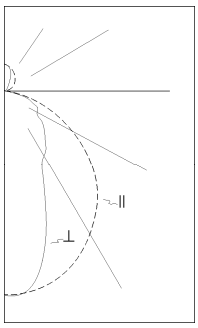
Luminaire Efficacy Rating
LER = 66 (White)
LER = 70 (Specular Inserts)
Catalog Number: 2HB-654T5-UPL

Yearly Cost of 1000 Lumens, 3000 hrs. at .08 KWH = $3.45

* Reference the lamp/ballast data in the Tecnical Section for specific lamp/ballast requirements

** Consult Pre Sales Technical Support.

PHOTOMETRICS



2HB-654T5-UPL
(2) Electronic Ballasts
(6) F54T5/HO 830
54W lamps
4400 lumens
Spacing criterion: (II) 1.2 x mounting height, (⊥) 0.7 x mounting height
Efficiency 92.5%
Test Report: 2HB654T5UPL4
LER =70
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.45

Candela

Angle	Along II	45°	Across ⊥
0	13320	13320	13320
5	13250	13294	13308
10	13061	12925	12351
15	12745	11840	10278
20	12299	10141	7845
25	11735	8184	5948
30	11057	6360	5033
35	10274	5024	4660
40	9396	4314	4074
45	8423	3874	3694
50	7352	3264	3175
55	6193	2829	2610
60	4991	2290	2465
65	3788	1809	2235
70	2613	1638	1576
75	1561	1098	687
80	709	363	123
85	138	32	12
90	4	5	4

Coefficients of Utilization

	Effective floor cavity reflectance				20%															
rc	80%				70%				50%			30%			10%			0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	105	105	105	105	98	98	98	93	93	93	87	87	87	85		
1	101	97	94	91	98	94	92	89	89	87	85	84	82	81	80	78	77	75		
2	93	87	82	77	90	84	80	76	80	76	73	76	73	70	72	70	67	65		
3	86	78	72	67	83	76	70	66	72	67	63	69	65	61	66	62	60	57		
4	80	70	63	58	77	69	62	57	65	60	56	62	58	54	60	56	53	51		
5	74	63	56	50	71	62	55	50	59	53	48	56	51	47	54	50	46	44		
6	68	57	50	45	66	56	49	44	54	48	43	51	46	42	49	45	41	39		
7	63	52	45	40	61	51	44	39	49	43	38	47	42	38	45	41	37	35		
8	59	47	40	35	57	46	40	35	45	39	34	43	37	34	41	36	33	31		
9	55	43	36	31	53	42	35	31	41	35	30	39	34	30	38	33	29	28		
10	51	39	33	28	49	39	32	28	37	31	27	36	31	27	35	30	26	25		

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	8500	32.2	34.8
0-40	12487	47.3	51.1
0-60	19012	72.0	77.8
0-90	22353	84.7	91.5
0-180	24424	92.5	100.0

Typical VCP Percentages

	Height Along		Height Across	
Room Size (Ft.)	8.5′	10.0′	8.5′	10.0′
20 x 20	33	37	37	42
30 x 30	30	31	38	36
30 x 60	29	28	46	41
60 x 30	38	36	43	40
60 x 60	36	32	50	44

ORDERING INFORMATION

SAMPLE NUMBER: 2HB-654T5-UNV-LGF54T5M/850K-TU-B454PUNVE/B254PUNVD-UPL-TCBP-U

Width
2=24"

Series
HB=High Bay

No. of Lamps
6=6 Lamps

Lamp Type
54T5=T5HO GE Lamps (48"), 5000K

Voltage
UNV=Universal 120/277V Voltage

Ballast=Universal Lighting Technology T5HO 4 Lamp and 2 Lamp Program Start Electronic Ballast

Additional Items
UPL=Uplight Apertures
TCBP=Top Connector Box Plate

Packaging
U=Unit Pack

NOTES: Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING INFORMATION

Catalog No.	Wt.
2HB15	27 lbs.